Division of Land Development Services 255 Rockville Pike, 2nd Floor Rockville, Maryland 20850-4166 (240) 777-6320 Fax (240) 777-6339

For Staff Use Only

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Water Quality Storm Drain Unit Plan Review Checklist

Project Name:		_ Engineer/Phone No		
Sedin	nent Control Permit No.:	_		
SWM File No.:		_ Assigned/Phone No.	Assigned/Phone No.	
		Submittal Date	Review Date	Initial
Leger	nd:			
NC	Incomplete/Incorrect	<u> </u>		
N/A SC SWM FPDP	Not Applicable Sediment Control Stormwater Management Floodplain District Permit	Plan Acceptable Date		
OA SPA	Drainage Area Special Protection Area			
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		Site in conformance with Preliminary Plan and/or Site Plan requirements or comments.
GENERAL	L PLAN REQUI	IREMENTS
		Vicinity map with site outlined (1:2,000 scale) on first sheet of the plan set.
		Existing and final contours (1-foot or 2-feet intervals).
		Existing and proposed improvements.
		Delineation of outfall or immediate downstream storm drain system.
		Facility and manhole location to allow easy access and maintenance.
		Safe 100-year flowpath.
		Existing and proposed utility location.
		Maintenance access from public right-of-way, minimum width 12 feet, maximum grade 15% if mechanically stabilized, 10% maximum without mechanical stabilization.
		Maintenance easement (must include the unit; any related appurtenances; access points; flow splitting structures; inlet trash racks).
		Title block (subdivision name with lots and blocks for which control is provided).
		Inspector checkoff list specific to each facility.
		Property line boundary and ownership information for adjacent properties.
		Delineation of 100-year floodplain and 25-foot buffer.
		North arrow.
		Certifications: Owner/Developer; Design; Cut/Fill; Maintenance; Structural.
		Loadings for structural design specified on plan (H-20 for vehicular areas). Submit a copy of the structural computations.
		Miss Utility note.
		Sealed by Professional Engineer.
		Unit is not to be used as an inlet.
		Details shown on plan for a specific model.
		Model dimensions – Give all variables.
		If feasible, locate the unit on a lateral or local storm drain line, preferably serving <5 acres, rather than on a trunk line.
		Gasket detail on plan.
		Give top slab and MH rim elevations.
		Nine (9) inch maximum height for manhole frame. Secure manhole rim to the top slab (Use WSSC detail S/4.3)

	All inlets draining to the unit must have surface debris trapping devices with openings < 6-inches in diameter unless drainage passes through a flow splitter trash rack before entering the unit. Trash racks on public storm drains are not permitted. Debris trapping devices are to be included in the maintenance easement and covenant documents. Do not use as a sediment trapping device.
FORMS AND NO	TES
	Standard Notes
	Provide installation/construction instructions
	Provide proceedure to seal lift holes
	Inspector Check-off list specific to each unit
	Maintenance notes
	Stormceptor Review Requirements
	Bypass area above the weir adequate to pass Q_{10} .
	Include 24-inch down pipe installation procedure for STC-2400, STC-3600, STC-4800, STC-6000, STC-7200.
	Two manholes are required if there is less than 3-feet of clearance between the drop inlet pipe and the bottom of the top slab.
	If < 4-feet between pipe invert and proposed grade, verify that construction of the unit is possible.
	Show pipe and insert dimensions – pipe type, inverts, exactly one inch difference between the inlet invert and the outlet invert. On a two inlet pipe design, there should be exactly 3-inches difference.
	No inlet/outlet pipe >36 inches without customization of the insert design.
	One inlet and one outlet pipe preferred. Two inlet pipes are the maximum allowed.
	Wherever possible, use smooth, non-corrugated inlet and outlet pipes with a flexible boot sized for the outside pipe diameter. If existing corrugated pipe is being connected to, securely set pipes into the unit with non-shrink grout.
	Provide procedure for drop pipe installation.
	Order form with completed sizing information for each unit on plans. Manhole rim elevation specified on the order form.
	Note that dimensional shop drawings are to be approved by the design engineer and accepted by DPS prior to fabrication. The dimensional shop drawings must be reviewed and signed off by the engineer prior to submittal to DPS.
	STORMCEPTOR SIZING
	For primary water quality, size for a minimum 80% TSS removal rate using the latest Stormceptor sizing guidelines.
	Total drainage area to the unit shown clearly in the computations.

	Use "Bethesda" or "Frederick" rainfall data, whichever is closest.
	Use "Fine" particle size.
BaySaver Review	v Requirements
	Sizing computations. For primary water quality, size so that the flow rate of the required water quality volume is at or below the "Optimal Treatment Capacity". Other sizing may be used if the unit serves as pretreatment only. Do not size per impervious drainage area.
	Show detail of downstream storm drain connection.
	_ Shop drawing is not required for BaySaver.
	Detail dimensions are accurately reflected in the dimension table on the plan.
ADDITIONAL R	REQUIREMENTS:
COMMENTS:	